

## Top K Frequent Words [\(View\)](#)

Given an array of strings `words` and an integer `k`, return *the `k` most frequent strings*.

Return the answer **sorted** by **the frequency** from highest to lowest. Sort the words with the same frequency by their **lexicographical order**.

### Example 1:

**Input:** `words = ["i","love","leetcode","i","love","coding"], k = 2`

**Output:** `["i","love"]`

**Explanation:** "i" and "love" are the two most frequent words.

Note that "i" comes before "love" due to a lower alphabetical order.

### Example 2:

**Input:** `words = ["the","day","is","sunny","the","the","the","sunny","is","is"], k = 4`

**Output:** `["the","is","sunny","day"]`

**Explanation:** "the", "is", "sunny" and "day" are the four most frequent words, with the number of occurrence being 4, 3, 2 and 1 respectively.

### Constraints:

- `1 <= words.length <= 500`
- `1 <= words[i].length <= 10`
- `words[i]` consists of lowercase English letters.
- `k` is in the range `[1, The number of unique words[i]]`

**Follow-up:** Could you solve it in  $O(n \log(k))$  time and  $O(n)$  extra space?